

## 2019 CLIFF-GRADS Awardees



### Bo-Wen Zhang

#### China

*Studying at:* Institute of Mountain Hazards and Environment, Chinese Academy of Sciences

*Hosted by:* Thünen Institute, Federal Research Institute for Rural Areas, Forestry and Fisheries, Germany.

#### What is your academic background?

I'm a PhD student at the Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, where I study soil science. My thesis topic is the soil-atmosphere exchange of gaseous reactive nitrogen compounds ( $N_2O$ ,  $NO$  and  $NH_3$ ) and illustrating the biotic and abiotic nitrogen cycling processes related to these gases. I have completed a whole year consecutive in situ monitoring work. Besides, a process-based  $^{15}N$  tracing model experiment and the nitrogen transformation associated functional genomics research are ongoing.

#### Which project have you been selected for?

“Modelling pH effects on direct nitrous oxide emissions from agricultural soils through complex stable isotope labelling”, supervised by Dr. Reinhard Well.

#### How will this award impact your study?

The research topic of Project 36 hosted by Dr. Reinhard Well is very interesting and matches well with my PhD project. I think this opportunity is helpful for me to learn the complex stable isotope labelling ( $^{15}N$ ,  $^{13}C$ ,  $^{18}O$ ) method systematically, especially the operation details and how to analyse the isotopic data correctly.

#### Tell us a bit more about yourself?

My favourite quote is: “As three men are walking together, there must be one I can learn something from. His merits are to be flowed and his shortcomings for reference to overcome my own” (Confucius).

\*\*\*\*\*